

# **OIL ANALYSIS REPORT**

Sample Rating Trend





### Area KEMP QUARRIES / BCS - MILL CREEK [66781] TTTOO8

Component Hydraulic System

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

Sample Number       Client Info       PCA0108978       PCA0086699       PCA02800         Sample Date       Client Info       11 Mar 2024       02 Feb 2023       05 Dec 2013         Machine Age       hrs       Client Info       7033       6859       6341         Oil Age       hrs       Client Info       7033       6859       0         Oil Changed       Client Info       N/A       Changed       N/A         Sample Status       Client Info       N/A       Changed       N/A         CONTAMINATION       method       Imit/base       current       history1       history2         Water       WC Method       >0.1       NEG       NEG       NEG         Chromium       ppm       ASTM 05185m       >10       0       0       0         Nickel       ppm       ASTM 05185m       >10       2       0       3       0         Silver       ppm       ASTM 05185m       >10       2       0       3       0         Auminum       ppm       ASTM 05185m       >10       21       1       0       0         Auminum <th>SUPER15W40 (-</th> <th> GAL)</th> <th>De</th> <th>c2019</th> <th>Feb2023 Mar20</th> <th>24</th> <th></th>	SUPER15W40 (-	GAL)	De	c2019	Feb2023 Mar20	24	
Sample Date       Client Info       11 Mar 2024       02 Feb 2023       05 Dec 2018         Machine Age       hrs       Client Info       7033       6859       6341         Oil Age       hrs       Client Info       7033       6859       0         Oil Changed       Client Info       N/A       Changed       N/A         Sample Status       Client Info       N/A       NORMAL       NORMAL       NORMAL         CONTAMINATION       method       Imit/base       current       history1       history2         Water       WC Method       >0.1       NEG       NEG       NEG         WEAR METALS       method       Imit/base       current       history1       history2         Iron       ppm       ASTM 05185m       >10       0       0       0         Machinum       ppm       ASTM 05185m       >10       2       0       3         Inickel       ppm       ASTM 05185m       >10       2       0       3         Kern       ppm       ASTM 05185m       >10       2       1       0         Astim D5185m       0	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Machine Age       hrs       Client Info       7033       6859       6341         Oil Age       hrs       Client Info       7033       6859       0         Oil Age       hrs       Client Info       7033       6859       0         Oil Changed       Client Info       N/A       Changed       N/A         Sample Status       Imit/base       current       history1       history2         Water       WC Method       >0.1       NEG       NEG       NEG         WEAR METALS       method       imit/base       current       history1       history2         Iron       ppm       ASTM 05185m       >10       c1       <1	Sample Number		Client Info		PCA0108978	PCA0086699	PCA462280 <sup>-</sup>
Oil Age   hrs   Client Info   7033   6859   0     Oil Changed   Client Info   N/A   Changed   N/A     Sample Status   Imilibase   current   history1   history2     Water   WC Method   >0.1   NEG   NEG   NEG     Weater   WC Method   >0.1   NEG   NEG   NEG     ContAMINATION   method   limil/base   current   history1   history2     Iron   ppm   ASTM 05185m   >20   2   3   6     Chromium   ppm   ASTM 05185m   >10   0   0   0     Nickel   ppm   ASTM 05185m   >10   0   0   0     Aluminum   ppm   ASTM 05185m   >10   0   0   0     Aluminum   ppm   ASTM 05185m   >10   2   0   3     Lead   ppm   ASTM 05185m   >10   2   1   0     Vanadium   ppm   ASTM 05185m   0   1   1   0     Adminum   ppm   ASTM 05185m   0   1   5   25     Magenesium   ppm   ASTM 05185m   0   1   5   25 <tr< td=""><td>Sample Date</td><td></td><td>Client Info</td><td></td><td>11 Mar 2024</td><td>02 Feb 2023</td><td>05 Dec 2019</td></tr<>	Sample Date		Client Info		11 Mar 2024	02 Feb 2023	05 Dec 2019
Oil Changed   Client Info   N/A   Changed   N/A     Sample Status   Imit/base   current   NORMAL   NORMAL     CONTAMINATION   method   Imit/base   current   history1   history2     Water   WC Method   >0.1   NEG   NEG   NEG     WEAR METALS   method   Imit/base   current   history1   history2     Iron   ppm   ASTM 0585m   >20   2   3   6     Ohromium   ppm   ASTM 0585m   >10   <1	Machine Age	hrs	Client Info		7033	6859	6341
Sample Status       NORMAL       NORMAL       NORMAL       NORMAL       NORMAL         CONTAMINATION       method       limit/base       current       history1       history2         Water       WC Method       >0.1       NEG       NEG       NEG         Wear METALS       method       limit/base       current       history1       history2         Iron       ppm       ASTM D5185m       >20       2       3       6         Chromium       ppm       ASTM D5185m       >10       0       0       0         Nickel       ppm       ASTM D5185m       >10       0       0       0         Silver       ppm       ASTM D5185m       >10       0       <1	Oil Age	hrs	Client Info		7033	6859	0
CONTAMINATION       method       limit/base       current       history1       history2         Water       WC Method       >0.1       NEG       NEG       NEG         Water       WC Method       >0.1       NEG       NEG       NEG         Water       ppm       ASTM D5185m       >20       2       3       6         Chromium       ppm       ASTM D5185m       >20       2       3       6         Chromium       ppm       ASTM D5185m       >20       2       3       6         Nickel       ppm       ASTM D5185m       >10       0       0       0         Aluminum       ppm       ASTM D5185m       >10       2       0       3         Lead       ppm       ASTM D5185m       >10       0       <1	Oil Changed		Client Info		N/A	Changed	N/A
Water       WC Method       >0.1       NEG       NEG       NEG         Wear       WC Method       >0.1       Inition       Inition       Inition       Inition         Iron       ppm       ASTM D5185m       >20       2       3       6         Chromium       ppm       ASTM D5185m       >10       0       0       0         Nickel       ppm       ASTM D5185m       >10       0       0       0         Silver       ppm       ASTM D5185m       >10       0       0       0         Aluminum       ppm       ASTM D5185m       >10       0       <1	Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS       method       linit/base       current       history1       history2         Iron       ppm       ASTM D5185m       >20       2       3       6         Chromium       ppm       ASTM D5185m       >10       <1	CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Iron       ppm       ASTM D5165m       >20       2       3       6         Chromium       ppm       ASTM D5165m       >10       <1	Water		WC Method	>0.1	NEG	NEG	NEG
Chromium       ppm       ASTM D5185m       >10       <1       <1       <1       0         Nickel       ppm       ASTM D5185m       >10       0       0       0         Titanium       ppm       ASTM D5185m       <1	WEAR META	LS	method	limit/base	current	history1	history2
Nickel       ppm       ASTM D5185m       >10       0       0       0         Titanium       ppm       ASTM D5185m       <1	Iron	ppm	ASTM D5185m	>20	2	3	6
Titanium       ppm       ASTM D5185m       <1       <1       <1       0         Silver       ppm       ASTM D5185m       0       0       0       3         Lead       ppm       ASTM D5185m       >10       0       <1	Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Silver       ppm       ASTM D5185m       >10       0       0       0         Aluminum       ppm       ASTM D5185m       >10       0       <1       1         Copper       ppm       ASTM D5185m       >10       0       <1       1         Copper       ppm       ASTM D5185m       >10       0       <1       1       1         Vanadium       ppm       ASTM D5185m       >10       <1       <1       0       <1       0         Vanadium       ppm       ASTM D5185m       0       <1       12       45         Boron       ppm       ASTM D5185m       0       1       12       45         Barium       ppm       ASTM D5185m       0       1       5       25         Maganese       ppm       ASTM D5185m       0       15       113       362         Calum       ppm       ASTM D5185m       0       15       133       362         Maganesium       ppm       ASTM D5185m       357       414       784         Phosphorus       ppm       ASTM D5185m	Nickel	ppm	ASTM D5185m	>10	0	0	0
Aluminum       ppm       ASTM D5185m       >10       2       0       3         Lead       ppm       ASTM D5185m       >10       0       <1	Titanium	ppm	ASTM D5185m		<1	<1	0
Lead       ppm       ASTM D5185m       >10       0       <1       1         Copper       ppm       ASTM D5185m       >75       4       8       19         Tin       ppm       ASTM D5185m       >10       <1	Silver	ppm	ASTM D5185m		0	0	0
Copper       ppm       ASTM D5185m       >75       4       8       19         Tin       ppm       ASTM D5185m       >10       <1	Aluminum	ppm	ASTM D5185m	>10	2	0	3
Tin       ppm       ASTM D5185m       >10       <1       <1       <1       0         Vanadium       ppm       ASTM D5185m       0       <1	Lead	ppm	ASTM D5185m	>10	0	<1	1
Tin       ppm       ASTM D5185m       >10       <1       <1       <1       0         Vanadium       ppm       ASTM D5185m       0       <1	Copper	ppm	ASTM D5185m	>75	4	8	19
CadmiumppmASTM D5185m0<10ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m011245BariumppmASTM D5185m0070MolybdenumppmASTM D5185m01525MagneseppmASTM D5185m015113362CalciumppmASTM D5185m015113362CalciumppmASTM D5185m1134061484PhosphorusppmASTM D5185m357414784ZincppmASTM D5185m9641379CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>20229SodiumppmASTM D5185m>20121VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONENONESilitscalar*VisualNONENONENONESiltscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONESiltscalar*VisualNONE<	Tin	ppm	ASTM D5185m	>10	<1	<1	0
CadmiumppmASTM D5185m0<10ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m011245BariumppmASTM D5185m0070MolybdenumppmASTM D5185m01525ManganeseppmASTM D5185m015113362CalciumppmASTM D5185m015113362CalciumppmASTM D5185m357414784PhosphorusppmASTM D5185m357414784ZincppmASTM D5185m9641379CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>20229SodiumppmASTM D5185m>20121VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONENONESilitscalar*VisualNONENONENONESilitscalar*VisualNONENONENONESilitscalar*VisualNONENONENONEGodorscalar*VisualNONEN	Vanadium	ppm	ASTM D5185m		0	<1	0
Boron       ppm       ASTM D5185m       0       1       12       45         Barium       ppm       ASTM D5185m       0       0       7       0         Molybdenum       ppm       ASTM D5185m       0       1       5       25         Manganese       ppm       ASTM D5185m       0       113       362         Calcium       ppm       ASTM D5185m       0       15       113       362         Calcium       ppm       ASTM D5185m       0       15       113       362         Calcium       ppm       ASTM D5185m       0       15       113       362         Calcium       ppm       ASTM D5185m       357       414       784         Zinc       ppm       ASTM D5185m       357       414       784         Sulfur       ppm       ASTM D5185m       964       1379          CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >20       1       2       1         Visual <td>Cadmium</td> <td></td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td>&lt;1</td> <td>0</td>	Cadmium		ASTM D5185m		0	<1	0
Barium       ppm       ASTM D5185m       0       0       7       0         Molybdenum       ppm       ASTM D5185m       0       1       5       25         Manganese       ppm       ASTM D5185m       0       113       362         Calcium       ppm       ASTM D5185m       0       15       113       362         Calcium       ppm       ASTM D5185m       0       15       114       784         Phosphorus       ppm       ASTM D5185m       357       414       784         Zinc       ppm       ASTM D5185m       364       1379          CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >20       2       2       9         Sodium       ppm       ASTM D5185m       >20       1       2       1         VISUAL       method       limit/base       current       history1       history2         White Metal       scalar       "Visual       NONE       NONE       NONE	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum       ppm       ASTM D5185m       0       1       5       25         Manganese       ppm       ASTM D5185m       0       113       362         Calcium       ppm       ASTM D5185m       0       15       113       362         Calcium       ppm       ASTM D5185m       0       15       113       406       1484         Phosphorus       ppm       ASTM D5185m       357       414       784         Zinc       ppm       ASTM D5185m       464       512       762         Sulfur       ppm       ASTM D5185m       964       1379          CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >20       2       2       9         Sodium       ppm       ASTM D5185m       >20       1       2       1         VISUAL       method       limit/base       current       history1       history2         White Metal       scalar       *Visual       NONE       NONE       NONE	Boron	ppm	ASTM D5185m	0	1	12	45
Marganese       ppm       ASTM D5185m       0       <1       0         Magnesium       ppm       ASTM D5185m       0       15       113       362         Calcium       ppm       ASTM D5185m       0       15       113       406       1484         Phosphorus       ppm       ASTM D5185m       357       414       784         Zinc       ppm       ASTM D5185m       464       512       762         Sulfur       ppm       ASTM D5185m       964       1379          CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >20       2       2       9         Sodium       ppm       ASTM D5185m       >20       1       2       1         VISUAL       method       limit/base       current       history1       history2         White Metal       scalar       *Visual       NONE       NONE       NONE          Yellow Metal       scalar       *Visual       NONE       NONE       NONE       -	Barium	ppm	ASTM D5185m	0	0	7	0
MagnesiumppmASTM D5185m015113362CalciumppmASTM D5185m1134061484PhosphorusppmASTM D5185m357414784ZincppmASTM D5185m364512762SulfurppmASTM D5185m9641379CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>20229SodiumppmASTM D5185m>20121PotassiumppmASTM D5185m>20121VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONESiltscalar*VisualNONENONENONESiltscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLQdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Molybdenum	ppm	ASTM D5185m	0	1	5	25
CalciumppmASTM D5185m1134061484PhosphorusppmASTM D5185m357414784ZincppmASTM D5185m464512762SulfurppmASTM D5185m9641379CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>20229SodiumppmASTM D5185m>20121VISUALmethodlimit/basecurrenthistory1history2VisualppmASTM D5185m>20121VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONESiltscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEG	Manganese	ppm	ASTM D5185m		0	<1	0
PhosphorusppmASTM D5185m357414784ZincppmASTM D5185m464512762SulfurppmASTM D5185m9641379CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>20229SodiumppmASTM D5185m>20121PotassiumppmASTM D5185m>20121VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONESiltscalar*VisualNONENONENONESiltscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEG	Magnesium	ppm	ASTM D5185m	0	15	113	362
ZincppmASTM D5185m464512762SulfurppmASTM D5185m9641379CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>20229SodiumppmASTM D5185m>20121PotassiumppmASTM D5185m>20121VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONESiltscalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLGodrscalar*VisualNORMLNORMLNORMLMapearancescalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEG	Calcium	ppm	ASTM D5185m		113	406	1484
SulfurppmASTM D5185m9641379CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>20229SodiumppmASTM D5185m>20121PotassiumppmASTM D5185m>20121VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Phosphorus	ppm	ASTM D5185m		357	414	784
SulfurppmASTM D5185m9641379CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>20229SodiumppmASTM D5185m>20121PotassiumppmASTM D5185m>20121VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Zinc	ppm	ASTM D5185m		464	512	762
SiliconppmASTM D5185m>20229SodiumppmASTM D5185m004PotassiumppmASTM D5185m>20121VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Sulfur		ASTM D5185m				
SodiumppmASTM D5185m004PotassiumppmASTM D5185m>20121VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	CONTAMINA	NTS	method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>20121VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Silicon	ppm	ASTM D5185m	>20	2	2	9
VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Sodium	ppm	ASTM D5185m		0	0	4
White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Potassium	ppm	ASTM D5185m	>20	1	2	1
Yellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	VISUAL		method	limit/base	current	history1	history2
Precipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	White Metal	scalar	*Visual	NONE	NONE	NONE	
Siltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Debrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Silt	scalar	*Visual	NONE	NONE	NONE	
Appearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEG	Debris	scalar	*Visual	NONE	NONE	NONE	
Odor       scalar       *Visual       NORML       NORML       NORML          Emulsified Water       scalar       *Visual       >0.1       NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Odor       scalar       *Visual       NORML       NORML       NORML          Emulsified Water       scalar       *Visual       >0.1       NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water scalar *Visual >0.1 NEG NEG	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water			>0.1		NEG	
	Free Water	scalar	*Visual		NEG	NEG	

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment:  $\mbox{PM-1}$  sampled fluid )

#### Wear

All component wear rates are normal.

#### Contamination

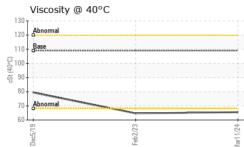
There is no indication of any contamination in the fluid.

#### Fluid Condition

The condition of the fluid is acceptable for the time in service.



## **OIL ANALYSIS REPORT**



	Visc @ 40°C	RTIES meth cSt ASTM	nod limit/ba D445 109	ase current 65.5	history1 64.7	history2 79.4
****	SAMPLE IMAG	GES meth	nod limit/ba	ase current	history1	history2
	Color			no image	no image	no image
Feb2/23 Marl 1/24	Bottom			no image	no image	no image
	GRAPHS					
	Iron (ppm)			Lead (ppm)		
	30			25 - Severe		
	E 20 - Abnormal			20 - 틒 15 -		
	420 <b>G</b>			Abnormal		
	10			5-		
		Feb2/23 +	Mar11/24 +	Dec5/19	Feb2/23 -	
	ے Aluminum (ppm)	Ъ.	Mar	ے Chromium (۱		
	<sup>30</sup>			30		
	25			25 - Severe		
	<u>특</u> 15 -			톱 15 -		
	10 - Abnormal			10 Abnormal		
				0		
	Dec5/19	Feb 2/23	Mar11/24	Dec5/19	Feb 2/23	
	Copper (ppm)			Silicon (ppm	)	
	200 Severe			50 Severe		
	e <sup>150</sup>			40-	1	
	Abnormal			E 30 20 - Abnormal		
	50 -			10-		
		Feb2/23	1/24	Dec5/19 + 0	Feb2/23 -	
		Feb	Mar11/24		Feb	
	Viscosity @ 40°C			Additives		
	120 - Abnormal 110 - Base			1500 - calcium zinc	rus	
	Û 100-			E 1000-		
	80			500	Construction of the local division of the lo	
	70 Abnormal			0		
	Dec5/19	Feb2/23	Mar11/24	Dec5/19	Feb2/23	
Laboratory Sample No. Lab Number Unique Number Test Package	: WearCheck USA - 50 : PCA0108978 : <mark>06121865</mark> : 10936016	1 Madison Ave., Received Tested Diagnosed	Cary, NC 275 : 18 Mar 202 : 19 Mar 202 : 21 Mar 2024	13 <b>Ke</b> 24 24	emp Quarries - E Contact:	BCS-Mill Cree 609 Lazy E F Noel, M US 6489 TRAVIS ELL npquarries.cc