

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

#### Machine Id E-ONE ENGINE 73 Component Hydraulic System Fluid NOT GIVEN (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### WEAR

All component wear rates are normal.

### CONTAMINATION

There is no indication of any contamination in the oil.

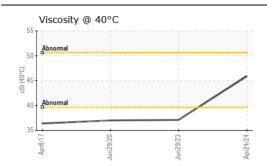
## FLUID CONDITION

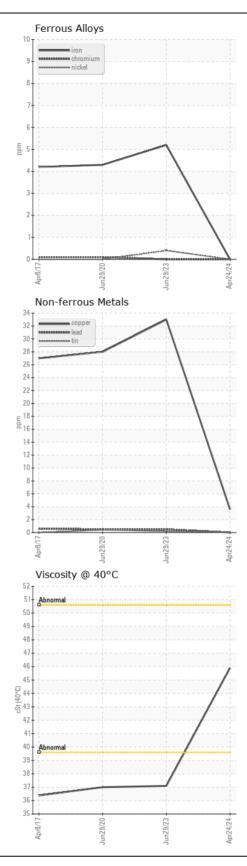
The condition of the oil is acceptable for the time in service.

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Sample Number     Client Info     WC0930933     WC0826517     WC04647       Sample Date     Client Info     24 Apr 2024     29 Jun 2023     29 Jun 20					
Sample Date     Client Info     24 Apr 2024     29 Jun 2023     29 Jun 2023       Machine Age     hrs     Client Info     964     0     4831       Oil Age     hrs     Client Info     5498     0     0       Filter Age     hrs     Client Info     5498     0     0       Oil Changed     Client Info     N/A     Not Changd     N/A       Filter Changed     Client Info     N/A     Not Changd     N/A       Sample Status	Test	UOM Method	Limit/Abn Curre	nt History1	History2
Machine Age     hrs     Client Info     964     0     4831       Oil Age     hrs     Client Info     5498     0     0       Filter Age     hrs     Client Info     5498     0     0       Oil Changed     Client Info     N/A     Not Changd     N/A       Filter Changed     Client Info     N/A     Not Changd     N/A       Sample Status     Client Info     N/A     Not Changd     N/A       Iron     ppm     ASTM D5185m<>20     0     5     4       Chromium     ppm     ASTM D5185m     >10     0     0     0       Nickel     ppm     ASTM D5185m     >10     0     <1     0       Aluminum     ppm     ASTM D5185m     >10     0     <1     0       Aluminum     ppm     ASTM D5185m     >10     0     <1     <1       Copper     ppm     ASTM D5185m     >10     0     <1     <1       Vanadium     ppm     ASTM D5185m     >20	Sample Number	Client Info	WC093	0933 WC0826517	WC0464763
Oil Age Filter AgehrsClient Info549800Filter AgehrsClient InfoN/ANot ChangedN/AOil ChangedClient InfoN/ANot ChangedN/AFilter ChangedClient InfoN/ANot ChangedN/ASample StatusVisionNORMALNORMALNORMALIronppmASTM D5185m>20054ChromiumppmASTM D5185m>1000<1NickelppmASTM D5185m>100<10TitaniumppmASTM D5185m>100<10AluminumppmASTM D5185m>100<1<1CopperppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>200<1<1VanadiumppmASTM D5185m>200<1<1VanadiumppmASTM D5185m>200<1<1VanadiumppmASTM D5185m>200<1<1VanadiumppmASTM D5185m>200<1<1VanadiumppmASTM D5185m>200<1<1Vellow Metalsca	Sample Date	Client Info	24 Apr	2024 29 Jun 2023	29 Jun 2020
Filter Age (Client InfoS49800Oil ChangedClient InfoN/ANot ChangdN/AFilter ChangedClient InfoN/ANot ChangdN/ASample StatusClient InfoN/ANORMALNORMALIronppmASTM D5185m>20054ChromiumppmASTM D5185m>1000<1NickelppmASTM D5185m>10000TitaniumppmASTM D5185m>10000SilverppmASTM D5185m>10000LeadppmASTM D5185m>100<10LeadppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>200<1<1Yellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>200<1<1WaterWC Method>0.1NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORM	Machine Age	hrs Client Info	964	0	4831
Oil ChangedClient InfoN/ANot ChangdN/AFilter ChangedClient InfoN/ANot ChangdN/ASample StatusClient InfoN/ANORMALNORMALIronppmASTM D5185m>20054ChromiumppmASTM D5185m>10001NickelppmASTM D5185m>100<10TitaniumppmASTM D5185m>100<10SilverppmASTM D5185m0<100AluminumppmASTM D5185m>100<1<1CopperppmASTM D5185m>100<1<1CopperppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>200<1<1Yellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>200<1<1WaterWC Method>0.1NEGNONENONENONESiliconppmASTM D5185m>200<1<1WaterWC Method>0.1NEGNONENONENONESand/Dirtscal	Oil Age	hrs Client Info	5498	0	0
Filter ChangedClient InfoN/ANot ChangedN/ASample StatusClient InfoN/ANORMALNORMALNORMALIronppmASTM D5185m>20054ChromiumppmASTM D5185m>1000<1NickelppmASTM D5185m>100<10TitaniumppmASTM D5185m0000SilverppmASTM D5185m0<100AluminumppmASTM D5185m>100<1<1CopperppmASTM D5185m>100<1<1CopperppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>200<1<1Yellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>200<1<1<1WaterWC Method>0.1NEGNONENONENONESiliconppmASTM D5185m>200<1<1<1WaterWC Method>0.1NEGNONENONENONEDebrisscalar*VisualNONENONENONE </th <th>Filter Age</th> <th>hrs Client Info</th> <th>5498</th> <th>0</th> <th>0</th>	Filter Age	hrs Client Info	5498	0	0
Sample StatusNORMALNORMALNORMALNORMALIronppmASTM D5185m>20054ChromiumppmASTM D5185m>1000<1NickelppmASTM D5185m>100<10TitaniumppmASTM D5185m0000SilverppmASTM D5185m0<100AluminumppmASTM D5185m>100<1<1CopperppmASTM D5185m>100<1<1CopperppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>200<1<1VenadiumppmASTM D5185m>200<1<1Vellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>200<1<1<1WaterWC Method>0.1NEGNONENONENONESilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNORENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMAppearancescalar*VisualNORMLNORMLNORM	Oil Changed	Client Info	N/A	Not Changd	N/A
Iron     ppm     ASTM D5185m     >20     0     5     4       Chromium     ppm     ASTM D5185m     >10     0     0     <11	Filter Changed	Client Info	N/A	Not Changd	N/A
Chromium     ppm     ASTM D5185m     >10     0     0     <1	Sample Status		NORM	IAL NORMAL	NORMAL
Chromium     ppm     ASTM D5185m     >10     0     0     <1	Iron	ASTM D5185m	> 20 0	5	Л
NickelppmASTM D5185m>100<1					
TitaniumppmASTM D5185m000SilverppmASTM D5185m0<10AluminumppmASTM D5185m>10000LeadppmASTM D5185m>100<1<1CopperppmASTM D5185m>7543328TinppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>100<1<1VanadiumppmASTM D5185m>100<1<1VanadiumppmASTM D5185m0000White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>200<1<1WaterWC Method>0.1NEGNONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMGodorscalar*VisualNORMLNORMLNORMLNORMAppearancescalar*VisualNORMLNORMLNORMLNORMGodorscalar*VisualNORMLNORMLNORM					
SilverppmASTM D5185m0<1					
AluminumppmASTM D5185m>10000LeadppmASTM D5185m>100<1<1<1CopperppmASTM D5185m>7543328TinppmASTM D5185m>100<1<1<1VanadiumppmASTM D5185m>100<1<1<1VanadiumppmASTM D5185m>100000White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>20<122PotassiumppmASTM D5185m>200<1<1WaterWC Method>0.1NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLAppearancescalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m<0.1NEGNEGNEG					
LeadppmASTM D5185m>100<1	••.		-		
CopperppmASTM D5185m>7543328TinppmASTM D5185m>100<1<1<1VanadiumppmASTM D5185m>100000White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>20<122PotassiumppmASTM D5185m>200<1<1WaterWC Method>0.1NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLSodiumppmASTM D5185m<10<1<1					÷
TinppmASTM D5185m>100<1					
VanadiumppmASTM D5185m0000White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>20<122PotassiumppmASTM D5185m>200<1<1WaterWC Method>0.1NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLSodiumppmASTM D5185m<0.1NEGNEGNEG					
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Yellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>20<122PotassiumppmASTM D5185m>200<1<1<1WaterWC Method>0.1NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m<10<1					÷
SiliconppmASTM D5185m>20<1					
PotassiumppmASTM D5185m>200<1	Yellow Metal	scalar Visual	NONE NO	NE NONE	NONE
Water   WC Method   >0.1   NEG   NEG   NEG     Silt   scalar   *Visual   NONE   NONE   NONE   NONE   NONE     Debris   scalar   *Visual   NONE   NONE   NONE   NONE   VLITE     Sand/Dirt   scalar   *Visual   NONE   NONE   NONE   NONE     Appearance   scalar   *Visual   NORML   NORML   NORML   NORM     Odor   scalar   *Visual   NORML   NORML   NORML   NORM     Emulsified Water   scalar   *Visual   >0.1   NEG   NEG   NEG     Sodium   ppm   ASTM D5185m   <1   0   <1	Silicon	ppm ASTM D5185m	>20 <1	2	2
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEVLITESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m<10<1	Potassium	ppm ASTM D5185m	>20 0	<1	<1
Debrisscalar*VisualNONENONENONEVLITESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m<10<1	Water	WC Method	>0.1 <b>NE</b>	G NEG	NEG
Sand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m<10<1	Silt	scalar *Visual	NONE NO	NE NONE	NONE
Appearance scalar *Visual NORML NORML NORML NORML NORML   Odor scalar *Visual NORML NORML NORML NORML NORML NORML   Emulsified Water scalar *Visual >0.1 NEG NEG NEG   Sodium ppm ASTM D5185m <1 0 <1	Debris	scalar *Visual	NONE NO	NE NONE	VLITE
Odor scalar *Visual NORML NORML NORML NORML NORML   Emulsified Water scalar *Visual >0.1 NEG NEG NEG   Sodium ppm ASTM D5185m <1 0 <1	Sand/Dirt	scalar *Visual	NONE NO	NE NONE	NONE
Emulsified Water scalar *Visual >0.1 NEG NEG   Sodium ppm ASTM D5185m <1 0 <1	Appearance	scalar *Visual	NORML NO	RML NORML	NORML
Sodium     ppm     ASTM D5185m     <1	Odor	scalar *Visual	NORML NO	RML NORML	NORML
	Emulsified Water	scalar *Visual	>0.1 NE	G NEG	NEG
	Sodium	ASTM D5185m	-1	0	-1
Barium ppm ASTM D5185m 0 0 0					
Molybdenum     ppm     ASTM D5185m     O     2     1					
Manganese     ppm     ASTM D5185m     O     <1					
Magnesium     ppm     ASTM D5185m     0     0     0	-				
Calcium     ppm     ASTM D5185m     137     342     336	Ū.				
Phosphorus     ppm     ASTM D5185m     579     474     456					
Zinc     ppm     ASTM D5185m     757     661     589					
Sulfur     ppm     ASTM D5185m     1767     2433     1700					
Visc @ 40°C     cSt     ASTM D445     45.9     37.1     37.0					

Submitted By: RANDY PRICE





**CLARKSVILLE FIRE DEPT** 2249 SAM GWIN DR CLARKSVILLE, IN US 47129



Unique Number : 11022472 Diagnosed : 13 May 2024 - Wes Davis Test Package : FLEET Contact: JAMES HENDRICK Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Tested

: 10 May 2024

: 13 May 2024

T: (812)283-7619 F:

Laboratory

Sample No.

Lab Number : 06176419

: WC0930933

Submitted By: RANDY PRICE Page 2 of 2