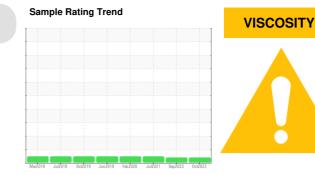


OIL ANALYSIS REPORT



Keye

Area KEMP QUARRIES / RIVER VALLEY BACKBONE Machine Id WL035 Component Bear Differential

Rear Differential

MOBIL MOBILTRANS HD 50 (--- GAL)

and the second	SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		PCA0084889	PCA0084863	PCA0038135
e of sampling has been	Sample Date		Client Info		25 Oct 2023	26 Sep 2023	14 Jul 2021
next service interval to			Client Info		44859	44539	43079
nple Comment: Hour on	Ŭ		Client Info		1200	900	0
	Oil Changed		Client Info		Changed	Not Changd	Not Changd
	Sample Status				ATTENTION	ATTENTION	NORMAL
s are normal.	WEAR METALS		method	limit/base	current	history1	history2
any contamination in the		pm	ASTM D5185m		36	30	46
			ASTM D5185m		0	<1	<1
			ASTM D5185m		0	0	0
than normal. Confirm oil			ASTM D5185m		0	<1	<1
			ASTM D5185m		0	0	<1
			ASTM D5185m		۰ <1	1	<1
			ASTM D5185m		0	<1	<1
			ASTM D5185m		3	3	4
			ASTM D5185m		0	3 <1	4 <1
			ASTM D5185m			< 1	0
				>0			
			ASTM D5185m		0	0	0
		pm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
			ASTM D5185m		2	2	15
		pm	ASTM D5185m		0	0	0
			ASTM D5185m		5	2	3
	-	pm	ASTM D5185m		<1	<1	<1
			ASTM D5185m		76	44	46
	Calcium p	pm	ASTM D5185m		899	1087	2957
		ppm	ASTM D5185m		538	637	1005
	Zinc p	pm	ASTM D5185m		710	796	1158
	Sulfur p	pm	ASTM D5185m		4004	5232	11362
	CONTAMINANTS	S	method	limit/base	current	history1	history2
	Silicon p	opm	ASTM D5185m	>100	5	6	7
	Sodium p	pm	ASTM D5185m		4	0	<1
					1	0	
	Potassium p	pm	ASTM D5185m	>20	0	<1	1
	Potassium p VISUAL	pm		>20 limit/base			1
	VISUAL White Metal s		ASTM D5185m	limit/base	0 current NONE	<1 history1 NONE	1 history2 NONE
	VISUAL White Metal s	calar	ASTM D5185m method	limit/base	0 current NONE NONE	<1 history1	1 history2
	VISUAL White Metal s Yellow Metal s	calar scalar	ASTM D5185m method *Visual	limit/base	0 current NONE	<1 history1 NONE	1 history2 NONE
	VISUAL White Metal s Yellow Metal s Precipitate s	calar scalar scalar	ASTM D5185m method *Visual *Visual	limit/base NONE NONE	0 current NONE NONE	<1 history1 NONE NONE	1 history2 NONE NONE
	VISUALWhite MetalsYellow MetalsPrecipitatesSilts	scalar scalar scalar scalar	ASTM D5185m method *Visual *Visual *Visual	limit/base NONE NONE NONE	0 current NONE NONE NONE	<1 history1 NONE NONE NONE	1 history2 NONE NONE NONE
	VISUALWhite MetalsYellow MetalsPrecipitatesSiltsDebriss	scalar scalar scalar scalar scalar	ASTM D5185m method *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE	0 current NONE NONE NONE NONE	<1 history1 NONE NONE NONE NONE	1 NONE NONE NONE NONE
	VISUALWhite MetalsYellow MetalsPrecipitatesSiltsDebrissSand/Dirts	scalar scalar scalar scalar scalar scalar	ASTM D5185m method *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE NONE	0 current NONE NONE NONE NONE NONE	<1 history1 NONE NONE NONE NONE NONE	1 NONE NONE NONE NONE NONE
	VISUALWhite MetalsYellow MetalsPrecipitatesSiltsDebrissSand/DirtsAppearances	scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m method *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE NONE	0 current NONE NONE NONE NONE NONE	<1 history1 NONE NONE NONE NONE NONE	1 history2 NONE NONE NONE NONE NONE
	VISUALWhite MetalsYellow MetalsPrecipitatesSiltsDebrissSand/DirtsAppearancesOdors	acalar acalar acalar acalar acalar acalar acalar acalar acalar	ASTM D5185m method *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE NONE NONE	0 current NONE NONE NONE NONE NONE NORML	<1 history1 NONE NONE NONE NONE NONE NONE NORML	1 NONE NONE NONE NONE NONE NONE NONE

DIAGNOSIS

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Hour of machine 44859)

Wear

All component wear rates are normal.

Contamination

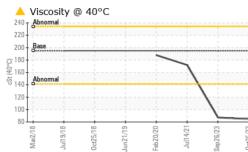
There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. Confirm oil type.



OIL ANALYSIS REPORT



	Visc @ 40°C	cSt	ASTM D445	195	A 84.8	▲ 87.3	172
	SAMPLE IMA	GES	method	limit/bas	se current	history1	history2
3 21	Color				no image	no image	no image
Feb.20/20 Jul14/21 Sep.26/23	Bottom				no image	no image	no image
	GRAPHS						
	Iron (ppm)				Lead (ppm)	
	800 - Severe				25 - Severe		
	Abnormal				E 15 - Abnormal		
	200 -				10- 5-		
		719-	/21-	/23		/19	/21
	Mar2/18 Jul19/18 0ct25/18	Jun21/19 . Feb20/20	Jul14/21 Sep26/23	0ct25/23	Mar2/18 - Jul19/18 +	0ct25/18 Jun21/19 Feb20/20	Jul14/21 Sep26/23
	Aluminum (ppm)			Chromium	(ppm)	
	50				6 - Severe 5 -		
	Abnormal			1	Abnormal		
	20-				2		
	0 81/ 81/	719	/21	/23		20 20 10 10 10 10 10 10 10 10 10 1	/21
	Mar2/18 Jul19/18 Oct25/18	Jun21/19 Feb20/20	Jul14/21 Sep26/23	0ct25/23	Mar2/18 - Jul19/18 -	0ct25/18 Jun21/19 Feb20/20	Jul14/21 Sep26/23
	Copper (ppm)				Silicon (ppi	n)	
	150				150		
	E 100 - Abnormal			a a a a a a a a a a a a a a a a a a a	Abnormal		
	50 -				50		
		/19	4/21	/23	0 18 19	/19	/23
	Mar2/18 Jul19/18 Oct25/18	Jun21/19 Feb20/20	Jul14/21 Sep26/23	0ct25/23	Mar2/18 Jul19/18	0ct25/18 Jun21/19 Feb20/20	Jul14/21 Sep26/23
	Viscosity @ 40°	C			Additives		
	200 Base				3000 - calciu 2500 - zine		7
	(J) 0+ 150 - Abnormal		7	mdd	2000 -		
	100-				1500-	and a subsection of the subsec	L
	Mar2/18		Jul14/21+	5/23		5/18	Jul14/21
	Mar2/18 Jul19/18 Oct25/18	Jun21/19 Feb20/20	Jul14/21 Sep26/23	0ct25/23	Mar Jull	0ct25/18 Jun21/19 Feb20/20	Jul14/21 Sep26/23
Laboratory Sample No. Lab Numbe Unique Numb Test Packa	r : 06000062 er : 10728422	- 501 Mad Receive Diagnos Diagnos	d : 06 sed : 08	ary, NC 275 Nov 2023 Nov 2023 an Felton	513 Kem	p Quarries - River V S	/alley - Backbo 5600 S Hwy 29 Huntington, A US 729 Contac