

OIL ANALYSIS REPORT

Sample Rating Trend VISCOSITY



Area K5 CONSTRUCTION CORPORATION - HODGKINS IL 1165 Component Diesel Engine

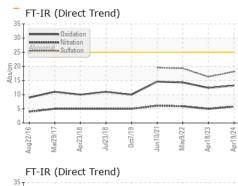
LEAHY WOLF PREMIUM 15W40 (8 hrs)

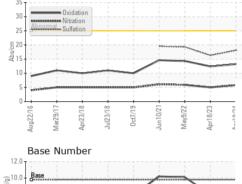
DIAGNOSIS	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2		
Recommendation	Sample Number		Client Info		PCA0122068	LW0006480	LW0004735		
il and filter change at the time of sampling has	Sample Date		Client Info		19 Apr 2024	18 Apr 2023	09 May 2022		
een noted. Resample at the next service interval	Machine Age	hrs	Client Info		9866	9612	9352		
o monitor.	Oil Age	hrs	Client Info		254	260	290		
/ear	Oil Changed		Client Info		Changed	Changed	Changed		
Il component wear rates are normal.	Sample Status				ATTENTION	ATTENTION	NORMAL		
Contamination There is no indication of any contamination in the	CONTAMINAT	ION	method	limit/base	current	history1	history2		
il.	Fuel		WC Method	>5	<1.0	0.5	<1.0		
Fluid Condition	Water		WC Method	>0.2	NEG	NEG	NEG		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Glycol		WC Method		NEG	NEG	NEG		
	WEAR METAL	S	method	limit/base	current	history1	history2		
	Iron	ppm	ASTM D5185m	>100	11	6	7		
	Chromium	ppm	ASTM D5185m	>20	<1	0	<1		
	Nickel	ppm	ASTM D5185m	>2	0	0	0		
	Titanium	ppm	ASTM D5185m	>2	<1	0	<1		
	Silver	ppm	ASTM D5185m		0	0	<1		
	Aluminum	ppm	ASTM D5185m	>25	1	<1	<1		
	Lead	ppm	ASTM D5185m	>40	0	0	<1		
	Copper	ppm	ASTM D5185m	>330	6	<1	1		
	Tin	ppm	ASTM D5185m	>15	0	0	<1		
	Antimony	ppm	ASTM D5185m						
	Vanadium	ppm	ASTM D5185m		0	0	0		
	Cadmium	ppm	ASTM D5185m		0	0	0		
	ADDITIVES method limit/base current history1 history2								
	Boron	ppm	ASTM D5185m		10	6	5		
	Barium	ppm	ASTM D5185m		<1	0	0		
	Molybdenum	ppm	ASTM D5185m		62	58	57		
	Manganese	ppm	ASTM D5185m		<1	<1	<1		
	Magnesium	ppm	ASTM D5185m		967	899	965		
	Calcium	ppm	ASTM D5185m		1190	1141	1152		
	Phosphorus	ppm	ASTM D5185m		1076	1014	1093		
	Zinc	ppm	ASTM D5185m		1275	1267	1298		
	Sulfur	ppm	ASTM D5185m		3485	3335	2586		
	CONTAMINAN	TS	method	limit/base	current	history1	history2		
	Silicon	ppm	ASTM D5185m	>25	5	4	2		
	Sodium	ppm	ASTM D5185m		7	1	0		
	Potassium	ppm	ASTM D5185m	>20	0	0	<1		
	INFRA-RED		method	limit/base	current	history1	history2		
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	5.8	5.0	5.9		
	Sulfation		*ASTM D7415		18.1	16.3	19.3		
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	12.4	14.3		
	Base Number (BN)	ma KOU/a	ASTM D2896	0.8	8.8	8.0	10.1		

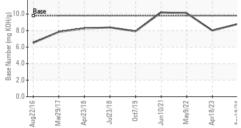
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	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
**************************************	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
and the Designation of the Desig	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
May9/22 Apr18/23 Apr19/24	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Apri Apri Apri	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG
	FLUID PROPE	RTIES	method	limit/base	current	history1	history2
No. of Concession, Name of Street, or other Distances of Street, o	Visc @ 100°C	cSt	ASTM D445	15.6	12.1	12.3	12.6
	GRAPHS						
a a management and the desider of the line	Iron (ppm)			10	Lead (ppm)		
May9/22 - Apr18/23 - ^	200 - Severe				80 - Severe		
May9/25 Apr18/25 A1 a.72	150 -			u d	60		
i i i i i i i i i i i i i i i i i i i	100 - Abnormal				40 - Abnormal		
	50 -				20 -		
	0 91 77 81 81	19	22	24	91	18	22
	Aug22/16 Mar29/17 Apr23/18 Jul23/18	0ct7/19	May9/22 Apr18/23	Apr19/24	Aug22/16 Mar29/17 Apr23/18	Jul23/18 0ct7/19 Jun10/21	May9/22 Apr18/23 Apr19/24
	Aluminum (ppm)		, – 4	4	Chromium (p	-	1 4 4
	⁵⁰ T				⁵⁰ T	·piii)	
	40 - Severe				40 - Severe		
	E 20			udd	30		
May9/22 Apr18/23 A1 a.r.1	20			14 2	20 - Abnormal		
M Ap	10				10		
	0 91 77 81 81	19	22	24	910	18	22
	Aug22/16 Mar29/17 Apr23/18 Jul23/18	0ct7/19	May9/22 Apr18/23	Apr19/24	Aug22/16 Mar29/17 Apr23/18	Jul23/18 Oct7/19	May9/22 Apr18/23 Apr19/24
	Copper (ppm) Silicon (ppm)						
	400 Severmal				80 Severe		
	300 -				60		
	200			Ed d	40		
	100				Abnormal 20	1 1 1	
	0				0		
	Aug22/16 - Mar29/17 - Apr23/18 - Jui23/18 -	0ct7/19 -	May9/22 - Apr1 8/23 -	Apr19/24 -	Aug22/16 - Mar29/17 - Apr23/18 -	Jul23/18 - Oct7/19 - Jun10/21-	May9/22 - Apr18/23 - Apr19/24 -
		00	May Apr1	Apri		· · ·	Mar Apr1 Apr1
	Viscosity @ 100°C			10	Base Numbe	r	
	18 Abnormal	1) (月12 (月10	Base		
				% Will be a constrained with a c	.0		\sim
	2 14			nber (.0 -		
	Abnormal	1			.0		
	10						
	Aug22/16 Mar29/17 Apr23/18 Jul23/18	0ct7/19	May9/22 . Apr18/23 .	Apr19/24	Aug22/16 Mar29/17 Apr23/18	Jul23/18 Oct7/19 Jun10/21	May9/22 Apr18/23 Apr19/24
	Auç Ma Api	0	Mi Apr	Api	Auç Ma	Ju O Ju	Mi Api Api
Sample No. Lab Number Unique Number Test Package	: WearCheck USA - 501 : PCA0122068 : 06158928 : 10994351 : MOB 1 (Additional Te: contact Customer Servic	Recei Teste Diagn sts: TBN	ved : 24 d : 25 losed : 26)	Apr 2024 Apr 2024 Apr 2024 - Jona		6301 S Conta	CORPORATION EAST AVENUE HODGKINS, IL US 60525 act: Dave Gorski aveg@k-five.net

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)

Certificate L2367

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